

DOCUMENT-IDENTIFIER: US 20020136158 A1

TITLE: MMSE reception of DS-CDMA with transmit diversity

Detail Description Paragraph - DETX (102):

[0086] The advantage of the filter implementation of the MMSE receiver is that additional data channels can be demodulated with very little additional complexity. No extra filters are required to demodulate the additional code channels. The filter implementation of the MMSE receiver for OTD permits the demodulation of each additional data channel with two correlators, each of length $2N$. The filter implementation of STTD and STS permit the demodulation of each additional data channel with four correlators, each of length N (STTD) and $2N$ (STS), respectively. In contrast, the complexity of the correlator implementation of the MMSE receiver scales approximately linearly with the number of data channels demodulated.

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WEEK:

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TITLE: Co-channel interface receiver for wireless communication networks, has multiuser detector to receive complex signal and operates with low complexity linear MMSE algorithm and M-algorithm based on prewhitened data

Basic Abstract Text - ABTX (4):

ADVANTAGE - The MMSE algorithm and M-algorithm technique allows multiple users to operate in the same communication channel, thereby separating co- channel signals accurately and reducing complex processing.